Table MP-5

Preliminary Opinion of Approximate Cost for Major Capital Components[1]

Stream Segment	Component Description	Priority Tier One	Priority Tier Two	Priority Tier Three	
1 & 2	Tie-back levees from BNSFRR near the penitentiary to the railroad spur downstream of Southwood Drive			$2,300,000	Develops additional capacity of BNSFRR bridge near the penitentiary and provides 100-year flood protection of the State Penitentiary. Provides 100-year flood protection of the Nash Finch Company warehouse facility, a commercial storage business and the LES substation. Levee construction must be phased to coordinate with Highway 77 bridge replacement.
2	Replace NDOR Highway 77 bridge			$1,100,000	Provides 100-year capacity without overtopping Highway 77. Bridge replacement should be to coordinate with levee construction.
2	Replace Southwood Drive structure			$600,000	Provides 50-year capacity for a collector street
2	Channel improvement below 27th Street Culvert outlet	$500,000			Increases box culvert performance to near 50-year level and provides stable streambed and channel banks
3	Off-channel storage facility and new channel	$1,600,000			Reduces peak flow rates using storage near the Tierra Branch confluence and reroutes flood flows to a stable channel.
3	Overflow channel and channel improvement above 27th Street Culvert	$200,000			Improves channel capacity and reduces water surface profiles near the Tierra Branch confluence.
4	Supplemental culvert under 40th Street and Highway 2, training dike, enlargement of bridge openings at Highway 2 and BNSFRR	$1,600,000			Eliminates mainstem induced flooding of 42 residences north of the channel during 100-year flood. Minor system improvements on Gertie Avenue reduce local flooding ($600,000 minor system improvements included).
7	Training dike at BNSFRR upstream of Pine Lake Road		$300,000		Eliminates bypass that causes frequent flooding of Pine Lake Road and enhances bridge performance.
Multiple	Upper Beal Slough Storage Facilities	$1,000,000	$1,500,000	$1,500,000	Reduces peak flow rates using on-channel storage, working in combination with other facilities to improve capacities of downstream bridges. Provides potential for multiuse benefits.
All	Streambed and streambank stability measures and channel improvements	$1,100,000	$2,000,000		Bioengineering measures including instream practices, streambank treatment, and channel improvements at multiple locations along Beal Slough.
	$15,300,000	$6,000,000	$3,800,000	$5,500,000	

[1] Based on 1999 costs